

Title (en)
DEVICE AND METHOD FOR CONTROLLING STOP OF HYDRAULIC PRESS AND DEVICE AND METHOD FOR DETECTING TROUBLE OF SPEED SELECTOR VALVE

Title (de)
VERFAHREN UND VORRICHTUNG ZUR REGELUNG DER ENDPOSITION EINER HYDRAULISCHEN PRESSE SOWIE VERFAHREN UND VORRICHTUNG ZUR FEHLERERKENNUNG BEI EINEM GESCHWINDIGKEITSWAHLVENTIL

Title (fr)
DISPOSITIF ET PROCEDE DE COMMANDE DE L'ARRET D'UNE PRESSE HYDRAULIQUE ET DISPOSITIF ET PROCEDE DE DETECTION DE PERTURBATION PROVENANT D'UNE VALVE SELECTRICE DE VITESSE

Publication
EP 1279488 A4 20050330 (EN)

Application
EP 01908252 A 20010302

Priority
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• JP 2000060852 A 20000306
• JP 2000091457 A 20000329

Abstract (en)
[origin: EP1279488A1] A rod pressure holding instruction section (67) controls a servo motor (37) to rotate a two-way pump (29) in a counter direction, and to supply hydraulic oil with pressure, which does not exceed pressure applied by an own weight of a ram (5U), to a two-way pump-side piping (49), increasing pressure. A difference between pressure in a rod-side cylinder chamber-side piping (43) of a speed switching valve (47) and pressure in a two-way pump-side piping (49) of the speed switching valve (47) is decreased, thereby decreasing an impact generated when switching the speed switching valve (47) and stopping the ram (5U) at a predetermined position. <IMAGE>

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B30B 15/18; B30B 15/00; F15B 7/00; F15B 11/04; F15B 9/04; F15B 19/00; B30B 15/28; F15B 20/00

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CPC (source: EP US)
B30B 15/161 (2013.01 - EP US); **B30B 15/18** (2013.01 - EP US); **F15B 9/04** (2013.01 - EP US); **Y10T 83/8858** (2015.04 - EP US)

Citation (search report)
• [A] US 2545246 A 19510313 - TUCKER WARREN R, et al
• [A] DE 2503143 A1 19760729 - PAHNKE ENG GMBH & CO KG
• [XA] US 4210228 A 19800701 - VAARALA HARRI [FI]
• [XA] PATENT ABSTRACTS OF JAPAN vol. 012, no. 081 (M - 676) 15 March 1988 (1988-03-15)
• [A] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 01 29 January 1999 (1999-01-29)
• See references of WO 0166340A1

Cited by
CN102937125A; US11872620B2; ITUA20164346A1; EP4043197A1; WO2011105973A1; WO2011021986A1; EP3854496A4; WO2017216737A1

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